

CLAIMS

1. Method for manufacturing a personal protection device for protecting a part of a body of a user, characterized in that it comprises the steps of:
 - providing an image of the shape of the body part to be protected,
 - 5 - based on the image of the body part, milling out a model of the body part,
 - providing at least one blank with a curved inner surface, the surface form being adapted to the outer surface of the model, and
 - cutting and/or finishing the edge of the blank(s) to obtain the desired shape.
2. Method according to claim 1, characterized in that the image is
10 acquired by means transferring a number of cameras surrounding the body part along the full length of the body part.
3. Method according to claim 2, characterized in that the cameras are arranged in a substantially circular pattern.
4. Method according to claim 1, characterized in that the blank is made
15 of a thermoplastic material.
5. Method according to any preceding claim, characterized in that the blank is made of a carbon composite material.
6. Method according to any preceding claim, characterized in that it further comprises:
 - 20 - providing the shaped blank(s) with fixing devices.
7. Method according to claim 6, characterized in that that the fixing devices are Velcro fasteners.
8. Method according to any preceding claim, characterized in that the blank is formed by thermoforming a sheet of a thermoplastic material.
- 25 9. Method according to any preceding claim, characterized in that there is provided at least two blanks which in combination covers substantially all of the body part to be protected.
10. Method according to any preceding claim, characterized in that the adjacent edges of the blanks have complementary forms.

11. Method according to any preceding claim, characterized in that the blank(s) when assembled form a tubular device.
12. Method according to any preceding claim, characterized in that it further comprises:
- 5 - providing the blank with padding.
13. Method according to any preceding claim, characterized in that the blanks are covered by a upholstery.
14. Method according to any preceding claim, characterized in that the blank(s) at the inside is covered by a temperature transporting material.
- 10 15. Method according to any preceding claim, characterized in that the blank(s) at the outside is covered by a flexible, shock absorbing material.
16. Method according any preceding claim, characterized in that the body part to be protected is the leg below the knee.
- 15 17. Personal protection device for protecting a part of a body of a user comprising at least two elements and fixing members for connecting the elements, characterized in that the elements have a curved inner surface, the curved surface being form-fitted to the shape of the body part to be protected by means of fitting to the outer surface of a model of the body part, the model being formed based on an image of the user's
- 20 body part.
18. Personal protection device according to claim 17 characterized in that the fixing members are Velcro fasteners.
19. Personal protection device according to claim 17 characterized in that the body part to be protected is the leg below the knee.
- 25 20. Personal protection device according to claim 17 characterized in that the adjacent edges of the elements have complementary forms to provide a tubular shape of the device.
21. Personal protection device according to claim 17, characterized in that it further comprises:
- 30 - providing the elements with padding.

22. Personal protection device according to any preceding claim,
c h a r a c t e r i z e d i n that the elements are covered by a upholstery.
23. Personal protection device according to claim 17, c h a r a c t e r i z e d i n
that the element(s) at the inside is covered by a temperature transporting material.
- 5 24. Personal protection device according to claim 17, c h a r a c t e r i z e d i n
that the element(s) at the outside is covered by a flexible, shock absorbing material.
25. Personal protection device according to claim 17, c h a r a c t e r i z e d i n
that the fixing members are made of a semi-rigid material.